

parkinsonsutility.ST25.txt  
SEQUENCE LISTING

<110> St. Jude Children's Research Hospital  
University of Tennessee Research Corporation  
Smeyne, Richard J.  
Tharp, Ruby  
Smeyne, Michelle  
Williams, Robert

<120> Method for Determining Sensitivity to Environmental Toxins and Susceptibility to Parkinson's Disease

<130> 023868.43877

<150> 60/433,437  
<151> 2002-12-13

<160> 71

<170> PatentIn version 3.2

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<213> Homo sapiens

<400> 48 ctctgagccc tgctcggtt aggccgtct gcggatccg caccaccag caccatgccc	60
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tacacagact caagctatga gaaaaagaag tacacgtgg gggacgctcc tgattatgac	180
agaagccagt ggctgaatga aaaattcaag ctgggcctgg actttcccaa tctgccctac	240
ttgattgtat gggctcacaa gatcacccag agcaacgcca tcttgcata cattgcccgc	300
aagcacaacc tgtgtgggaa gacagaagag gagaagattc gtgtggacat tttggagaac	360
cagaccatgg acaaccatat gcagctggc atgatctgct acaatccaga atttgagaaa	420
ctgaagccaa agtacttggaa ggaactccct gaaaagctaa agctctactc agagttctg	480
gggaagcggc catggtttgc aggaaacaag atcacttttgc tagattttct cgtctatgat	540
gtccttgacc tccaccgtat atttgagccc aagtgcgtgg acgccttccc aaatctgaag	600
gacttcatct cccgcttga gggcttggag aagatctctg cctacatgaa gtccagccgc	660
ttcctcccaa gacctgtgtt ctcaaagatg gctgtctgg gcaacaagta gggccttgaa	720
ggccaggagg tgggagttag gagcccatac tcagcctgct gcccaggctg tgcagcgcag	780
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ttgaagcctc agctaccac tatccttcgt gaacatcccc tcccatcatt acccttccct	960
gcactaaagc cagcctgacc ttccttcctg ttagtgggtt gttctgtttt aaaggccctg	1020
cctggccctt cgcctgtgga gctcagcccc gagctgtccc cgtgttgcatt gaaggagcag	1080
cattgactgg ttacaggcc ctgctcctgc agcatggtcc ctgccttagg cctacctgat	1140
ggaagtaaag cctcaaccac a	1161

<210> 49  
<211> 20

parkinsonutility.ST25.txt

<212> DNA  
<213> synthetic

<220>  
<221> misc\_feature  
<222> (1)..(20)  
<223> Forward Primer

<400> 49  
gcccttgaa gcctcagcta

20

<210> 50  
<211> 23  
<212> DNA  
<213> synthetic

<220>  
<221> misc\_feature  
<222> (1)..(23)  
<223> Reverse Primer

<400> 50  
tttagtgcag ggaagggtaa tga

23

<210> 51  
<211> 27  
<212> DNA  
<213> synthetic

<220>  
<221> misc\_feature  
<222> (1)..(27)  
<223> TaqMan Probe

<400> 51  
ccactatcct tcgtgaacat cccctcc

27

<210> 52  
<211> 1050  
<212> DNA  
<213> Homo sapiens

<400> 52  
ctctgagccc tgctcggttt aggccctgtct gcggaatccg caccacccag caccatgcc 60  
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tacacagact caagctatga ggaaaagaag tacacgtatgg gggacgctcc tgattatgac 180  
agaagccagt ggctgaatga aaaattcaag ctgggcctgg actttcccaa tctgccctac 240  
ttgattgtatg gggctcacaa gatcacccag agcaacgcca tcttgcgtca cattgcccgc 300  
aagcacaacc tgtgtgggaa gacagaagag gagaagattc gtgtggacat tttggagaac 360  
cagaccatgg acaaccatat gcagctgggc atgatctgct acaatccaga atttgagaaa 420

parkinsonsutility.ST25.txt

ctgaagccaa	agtacttggaa	ggaactccct	gaaaagctaa	agctctactc	agagtttctg	480
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gcagggccctt	tgaaggctca	gctacccact	atccttcgtg	aacatccctt	cccatcatta	840
cccttcctg	cactaaagcc	agcctgacct	tccttcctgt	tagtggttgt	gtctgcittta	900
aagggcctgc	ctggccccc	gcctgtggag	ctcagccccg	agctgtcccc	gtgttgcattg	960
aaggagcagc	attgactggt	ttacaggccc	tgctcctgca	gcatggtccc	tgccttaggc	1020
ctacctgatg	gaagtaaagc	ctcaaccaca				1050

<210> 53  
 <211> 20  
 <212> DNA  
 <213> synthetic

<220>  
 <221> misc\_feature  
 <222> (1)..(20)  
 <223> Forward Primer

<400> 53  
 tttaggcctg tctgcggaaat 20

<210> 54  
 <211> 23  
 <212> DNA  
 <213> synthetic

<220>  
 <221> misc\_feature  
 <222> (1)..(23)  
 <223> Reverse Primer

<400> 54  
 gatgtcccaag tacccagta tca 23

<210> 55  
 <211> 21  
 <212> DNA  
 <213> synthetic

<220>  
 <221> misc\_feature  
 <222> (1)..(21)  
 <223> TaqMan Probe

parkinsonsutility.ST25.txt

<400> 55  
cgcaccaacc agcaccatgc c

21

<210> 56  
<211> 1572  
<212> DNA  
<213> Homo sapiens

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gccctgaacc ccaacgcccgg cattagtcgc gcctgcgcac ggcctgtgg agccgcggag	180
gcaagggacg gagaacgggg cgaggcgga gtcagggcgc ccgcgcgtgg gccccgcccc	240
cttatgtcgg gtataaagcc cctcccgctc acagtttccc tagtcctcga aggctcgaa	300
gcccgtcacc atgtcgtgcg agtcgtctat ggttctcggg tactggata ttcgtggct	360
ggcgcacgccc atccgcctgc tcctggagtt cacggataacc tcttatgagg agaaacggta	420
cacgtgcggg gaagctcctg actatgatcg aagccaatgg ctggatgtga aattcaagct	480
agacctggac tttcctaattc tgccctacct cctggatggg aagaacaaga tcacccagag	540
caatgccatc ttgcgtaca tcgctcgaa gcacaacatg tgtggatgaga ctgaagaaga	600
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aatcgctgcc tacttacagt ctgatcagtt ctgcaagatg cccatcaaca acaagatggc	960
ccagtggggc aacaagcctg tatgctgagc aggaggcaga cttgcagagc ttgtttgtt	1020
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gtgaggataa cacaagtaaa actgtggta tcatggactt aaccggagtt cgaaaaaccgt	1380
cctgtgtaca catggagtt tagtgtata aaggcagtt ttcagactgg tgggttagcc	1440
aatagagttg ggacaattgc ttactcatta aaaataatag agccccactt gacactattc	1500
actaaaatta atctggatt taaggcccaa cattaaacac aaagctgttg aaataaaaaaa	1560

aaaaaaaaaa aa

<210> 57  
 <211> 19  
 <212> DNA  
 <213> Synthetic

<220>  
 <221> misc\_feature  
 <222> (1)..(19)  
 <223> Forward Primer

<400> 57  
 cgctgcata ctggcattt

19

<210> 58  
 <211> 18  
 <212> DNA  
 <213> synthetic

<220>  
 <221> misc\_feature  
 <222> (1)..(18)  
 <223> Reverse Primer

<400> 58  
 gggcttgggc atgaacct

18

<210> 59  
 <211> 28  
 <212> DNA  
 <213> synthetic

<220>  
 <221> misc\_feature  
 <222> (1)..(28)  
 <223> TaqMan Probe

<400> 59  
 cctactcccc aactgagttc aagggctg

28

<210> 60  
 <211> 1436  
 <212> DNA  
 <213> Homo sapiens

<400> 60  
 ggcgaggccg agccctcct agtgcttccg gaccttgctc cctgaacact cggaggtggc 60  
 ggtggatctt actccttcca gccagtgagg atccagcaac ctgctccgtg cctccgcgc 120  
 ctgttggttg gaagtgacga cttgaagat cggccggttg gaagtgacga cttgaagat 180  
 cggcgggcgc agcggggccg agggggcggg tctggcgta ggtccagccc ctgcgtgccg 240  
 ggaaccccag aggaggtcgc agttcagccc agctgaggcc tgcgtgcaga atcgacacca 300

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accagcatca	tgtccatgac	actggggta	cgacatcc	gcgggctggc	ccacgccatc	360
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aagtaatgcc	ttgaaggcca	ggaggtggga	gtgaggagcc	catactcagc	ctgctgccc	1020
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aacactaccc	ttccctgcac	taaagccagc	ctgaccctcc	ttcctgttag	tggttgtatc	1260
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gcctacctga	tcaaaataaa	gcctcagcca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1436

<210> 61  
 <211> 18  
 <212> DNA  
 <213> synthetic

<220>  
 <221> misc\_feature  
 <222> (1)..(18)  
 <223> Forward Primer

<400> 61  
 gcagcgcagc tggactct 18

<210> 62  
 <211> 26  
 <212> DNA  
 <213> synthetic

<220>  
 <221> misc\_feature

## **parkinsonsutility.ST25.txt**

<222> (1)..(26)  
<223> Reverse Primer

<400> 62  
ggtaaagatg ggaataaaaca ggagaa 26

<210> 63  
<211> 24  
<212> DNA  
<213> synthetic

<220>  
<221> misc\_feature  
<222> (1)..(24)  
<223> TagMan Probe

<400> 63 atccccagcac ctgcgcctcgttc 24

<210> 64  
<211> 1567  
<212> DNA  
<213> *Homo sapiens*

## **parkinsonsutility.ST25.txt**

ctcccttgc tgggtcccta ccccagctcc gtgtgatgcc cagtaaagcc tgaaccatgc	1140
ctgccatgtc ttgtcttatt ccctgaggct cccttgactc aggactgtgc tcgaattgtg	1200
ggtgttttt tgtcttctgt tgtccacagc cagagcttag tggatgggtg tgtgtgttg	1260
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gtatttgt	1567

<210> 65  
<211> 20  
<212> DNA  
<213> synthetic

<220>  
<221> misc\_feature  
<222> (1)..(20)  
<223> Forward Primer

<400> 65  
cagcaaatacg gggccagtgaa 20

<210> 66  
<211> 16  
<212> DNA  
<213> synthetic

<220>  
<221> misc\_feature  
<222> (1)...(16)  
<223> Reverse Primer

<400> 66 gggtcgcagg cagcaa 16

<210> 67  
<211> 24  
<212> DNA  
<213> synthetic

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<220>
<221> misc_feature
<222> (1)..(24)
<223> TaqMan Probe
```

<400> 67 ccagaagatg ggagggagga gcc 24

parkinsonsutility.ST25.txt

<210> 68  
<211> 793  
<212> DNA  
<213> Homarus gammarus

<400> 68  
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ccggccccgg agggctcgat ccgcacatctac agcatgaggt tctgcccgtt tgctgagagg 120  
acgcgtctag tcctgaagc caaggaaatc aggcatgaag tcatcaatat caacctgaaa 180  
aataagcctg agtggttctt taagaaaaat cccttggtc tggtgccagt tctggaaaac 240  
agtcaagggtc agctgatcta cgagtctgcc atcacctgtg agtacctgga tgaagcatac 300  
ccagggaaaga agctgttgc gcatgacccc tatgagaaag cttgccagaa gatgatctta 360  
gagttgtttt ctaaggtgcc atccttggta ggaagctta ttagaagcca aaataaagaa 420  
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agtaaaaaaaa aaa 793

<210> 69  
<211> 21  
<212> DNA  
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<220>  
<221> misc\_feature  
<222> (1)..(21)  
<223> Forward Primer

<400> 69  
ccgcacatctac agcatgaggt t 21

<210> 70  
<211> 20  
<212> DNA  
<213> synthetic

<220>  
<221> misc\_feature  
<222> (1)..(20)  
<223> Reverse Primer

parkinsonsutility.ST25.txt

<400> 70  
tcccttggcc ttcaggacta

20

<210> 71  
<211> 22  
<212> DNA  
<213> synthetic

<220>  
<221> misc\_feature  
<222> (1)..(22)  
<223> TaqMan Probe

<400> 71  
tgcccgtttg ctgagaggac gc

22